

0.00 -2.35

FILE 'CAPLUS' ENTERED AT 11:04:50 ON 18 DEC 2001  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1907 - 18 Dec 2001 VOL 135 ISS 26  
FILE LAST UPDATED: 17 Dec 2001 (20011217/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Caplus now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> s l13

L14 639 L13

=> s l14 and crystal

926824 CRYSTAL

524455 CRYSTALS

1174445 CRYSTAL

(CRYSTAL OR CRYSTALS)

L15 8 L14 AND CRYSTAL

=> d l15 1-8 bib abs

L15 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 2001:109949 CAPLUS

DN 134:168317

TI Nonhygroscopic **crystals** of benzimidazolyl pyridylmethyl sulfoxides and their preparation

IN Tsujii, Masahiko; Arakawa, Nobuo; Hasebe, Takashi

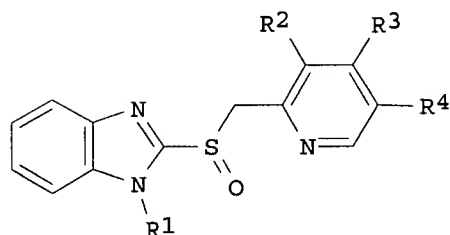
PA Eisai Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9821201	A1	19980522	WO 1997-JP4136	19971113
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	TW 385306	B	20000321	TW 1997-86116425	19971105
	AU 9749652	A1	19980603	AU 1997-49652	19971113
	AU 731776	B2	20010405		
	JP 10195068	A2	19980728	JP 1997-312185	19971113
	EP 944617	A1	19990929	EP 1997-912445	19971113
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	CN 1237167	A	19991201	CN 1997-199638	19971113
	US 6002011	A	19991214	US 1998-9959	19980121
	KR 2000053158	A	20000825	KR 1999-704094	19990507
PRAI	JP 1996-303361	A	19961114		
	WO 1997-JP4136	W	19971113		
OS	MARPAT 129:16123				
GI					



AB Substantially solvent-free and stable **crystals** of benzimidazoles I (R1 = H or an N-protecting group; R2, R3, R4 = H, alkyl, haloalkyl, alkoxy, haloalkoxy; benzene ring may be substituted) or their salts are prepd. in an industrially advantageous method by a desolvation method.

L15 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 1997:724488 CAPLUS

DN 127:336721

TI Study of **crystal** modifications of Lansoprazole using FT-IR spectroscopy, solid-state NMR spectroscopy and FT-Raman spectroscopy

AU Curin, A. Sitar; Grcman, M.; Vrečer, F.; Kotar-Jordan, B.; Sustar, B.

CS KRKA, d.d., Novo mesto, R&D Division, Novo mesto, 8501, Slovenia

SO Farm. Vestn. (Ljubljana) (1997), 48(Pos. Stev.), 290-291

CODEN: FMVTAV; ISSN: 0014-8229

PB Slovensko Farmacevtsko Drustvo

DT Journal

LA English

AB The characterization of **crystal** modifications of drugs is very important in preformulation studies due to their influence on the biopharmaceutic and stability properties of dosage forms. The isolated modification of lansoprazole were identified by FT-IR spectroscopy, solid-state NMR and FT-Raman spectroscopy. The main advantage of this technique is that there is no mech. stress applied on the sample during sample prepn. and scanning the spectra.

L15 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2001 ACS  
AN 1997:724334 CAPLUS  
DN 127:362535  
TI Study of influence of temperature and grinding on the crystalline state of  
lansoprazole  
AU Vrečer, F.; Kramar, A.; Curin, A.; Grcman, M.; Kotar-Jordan, B.  
CS KRKA, d.d., Novo mesto, R&D Division, Novo mesto, 8000, Slovenia  
SO Farm. Vestn. (Ljubljana) (1997), 48(Pos. Stev.), 242-243  
CODEN: FMVTAV; ISSN: 0014-8229  
PB Slovensko Farmacevtsko Drustvo  
DT Journal  
LA English  
AB The polymorphic form B of lansoprazole underwent a spontaneous  
transformation into the stable form. The transformation was facilitated  
by temp. and applied mech. stress. Thus, in spite of a faster dissoln.  
rate of the form B than that of the form A, the form B cannot be used as  
such in the development of the dosage forms.

JP 2000-181640 A3 20000616

AB A novel **crystal** of (R)-2-[[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]-1H-benzimidazole (lansoprazole) or a salt is useful as an excellent antiulcer agent. Amorphous (R)-lansoprazole, obtained by the chromatog. resoln. of racemic lansoprazole, was dissolved in acetone, and water was added with gentle heating. After being collected by filtration, the solid was washed with water, and washed with diisopropyl ether, and dried. A **crystal** seed was placed, and the mixt. was kept standing at room temp. overnight. Pptd. **crystals** were collected by filtration, washed with diisopropyl ether, and dried. These **crystals** were dissolved in acetone and water to yield a ppt. which was dried. The pptd. solid was filtered, washed with acetone-water, and dried. After repeated dissoln. of the solid in acetone and diisopropyl ether and washing and drying, **crystals** of R(+)-lansoprazole were obtained.

L15 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 2000:911228 CAPLUS

DN 134:56673

TI Preparation of new crystalline forms of lansoprazole

IN Piechaczek, Janina; Glice, Magdalena; Cichy, Bozena; Serafin, Jadwiga; Koziol, Anna; Cybulski, Jacek; Chilmonczyk, Zdzislaw

PA Instytut Farmaceutyczny, Pol.

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000078729	A1	20001228	WO 2000-PL42	20000615
	W: CZ, HR, HU, RU, SK, UA, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

PRAI PL 1999-333847 A 19990618

AB The polymorphism of lansoprazole is described where the cryst. forms I and II of lansoprazole were obtained and identified and a method of prepn. of lansoprazole in the pharmaceutically advantageous cryst. form I was developed by crystn. of crude lansoprazole from ethanol (contg. .ltoreq.10% water), followed by crystn. of lansoprazole of .gtoreq.99% purity from acetone. The form I finds application as an active ingredient of pharmaceutical compns. (no data) and cryst. data for forms lansoprazole I and II are presented.

RE.CNT 6

RE

(1) Kotar, B; EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES 1996, V4(Supplement), PS182

(2) Kubo, K; CHEMICAL & PHARMACEUTICAL BULLETIN 1990, V38(10), P2853 CAPLUS

(4) Takeda Chemical Industries Ltd; EP 0302720 A 1989 CAPLUS

(5) Takeda Chemical Industries Ltd; WO 9821201 A 1998 CAPLUS

(6) Vreecer, F; FARMACEVTSKI VESTNIK 1997, V48, P242 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 1998:341559 CAPLUS

DN 129:16123

TI **Crystals** of benzimidazole derivatives and their production

IN Kato, Masayasu; Ishida, Toru

PA Takeda Chemical Industries, Ltd., Japan; Kato, Masayasu; Ishida, Toru

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

=> d 118 bib abs 1-2

L18 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS

AN 2000:911240 CAPLUS

DN 134:61518

TI Purification and crystallization of (R)-lansoprazole as antiulcer agent

IN Fujishima, Akira; Aoki, Isao; Kamiyama, Keiji

PA Takeda Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000078745	A2	20001228	WO 2000-JP3880	20000615
	WO 2000078745	A3	20010705		
	W:	AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1129088	A2	20010905	EP 2000-937235	20000615
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	JP 2001058990	A2	20010306	JP 2000-181640	20000616
	JP 2001122783	A2	20010508	JP 2000-331386	20000616
PRAI	JP 1999-171509	A	19990617		
	WO 2000-JP3880	W	20000615		
	JP 2000-181640	A3	20000616		
AB	A novel crystal of (R)-2-[[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]-1H-benzimidazole (lansoprazole) or a salt is useful as an excellent antiulcer agent. Amorphous (R)-lansoprazole, obtained by the chromatog. resoln. of racemic lansoprazole, was dissolved in acetone, and water was added with gentle heating. After being collected by filtration, the solid was washed with water, and washed with diisopropyl ether, and dried. A crystal seed was placed, and the mixt. was kept standing at room temp. overnight. Pptd. crystals were collected by filtration, washed with diisopropyl ether, and dried. These crystals were dissolved in acetone and water to yield a ppt. which was dried. The pptd. solid was filtered, washed with acetone-water, and dried. After repeated dissoln. of the solid in acetone and diisopropyl ether and washing and drying, crystals of R(+)-lansoprazole were obtained.				

L18 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS

AN 1996:229899 CAPLUS

DN 124:331460

TI Determination of R(+)- and S(-)-lansoprazole using chiral stationary-phase liquid chromatography and their enantioselective pharmacokinetics in humans

AU Katsuki, Hisakazu; Yagi, Hatsumi; Arimori, Kazuhiko; Nakamura, Chizuko; Nakano, Masahiro; Katafuchi, Shigeru; Fujioka, Yuhichi; Fujiyama, Shigetoshi

CS Dep. Pharmacy, Kumamoto Univ. Hospital, Kumamoto, Japan

SO Pharm. Res. (1996), 13(4), 611-15

CODEN: PHREEB; ISSN: 0724-8741

DT Journal

LA English

AB Stereoselective and sensitive methods employing chiral stationary phase

columns for HPLC detn. of enantiomers of lansoprazole in the human serum were developed and pharmacokinetic behaviors of the enantiomers were evaluated in seven subjects. Five chiral stationary phase columns: Chiralcel OD (cellulose tris(3,5-dimethyl-phenylcarbamate)), OF (cellulose tris(4-chlorophenylcarbamate)), OG (cellulose tris(4-methylphenylcarbamate)) and OJ (cellulose tris(4-methylbenzoate)), and Chiralpak AS (amylose tris ((S)-1-phenylethylcarbamate)) were investigated. Chiralcel OD and Chiralpak AS columns gave a good resolu. of R(+)- and S(-)-enantiomers from racemic lansoprazole, but Chiralcel OF, OG, and OJ did not. The mean C<sub>max</sub> and the AUC values of R(+)-enantiomer were 3-5 times greater than those of S(-)-enantiomer following oral administration of 30 mg of racemic lansoprazole. The CL<sub>tot</sub> values of R(+)-enantiomer were significantly smaller than those of S(-)-enantiomer. Binding of R(+)-enantiomer to human serum proteins was significantly greater than that of S(-)-enantiomer. The mean metabolic ratio (metabolites/parent compd.) in human liver microsomes of S(-)-enantiomer was significantly greater than that of R(+)-enantiomer. The stereoselective pharmacokinetics of lansoprazole enantiomers is likely due to its stereoselective protein binding and/or metab.

=> s 124:331460/dn  
L8 1 124:331460/DN

=> d 18

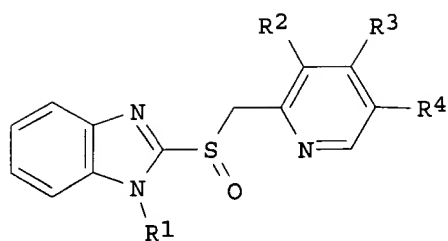
L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS  
AN 1996:229899 CAPLUS  
DN 124:331460  
TI Determination of R(+)- and S(-)-lansoprazole using chiral stationary-phase liquid chromatography and their enantioselective pharmacokinetics in humans  
AU Katsuki, Hisakazu; Yagi, Hatsumi; Arimori, Kazuhiko; Nakamura, Chizuko; Nakano, Masahiro; Katafuchi, Shigeru; Fujioka, Yuhichi; Fujiyama, Shigetoshi  
CS Dep. Pharmacy, Kumamoto Univ. Hospital, Kumamoto, Japan  
SO Pharm. Res. (1996), 13(4), 611-15  
CODEN: PHREEB; ISSN: 0724-8741  
DT Journal  
LA English

=> s wo9821201/pn  
L9 1 WO9821201/PN

=> d 19 bib abs

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS  
AN 1998:341559 CAPLUS  
DN 129:16123  
TI Crystals of benzimidazole derivatives and their production  
IN Kato, Masayasu; Ishida, Toru  
PA Takeda Chemical Industries, Ltd., Japan; Kato, Masayasu; Ishida, Toru  
SO PCT Int. Appl., 36 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9821201	A1	19980522	WO 1997-JP4136	19971113 <--
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	TW 385306	B	20000321	TW 1997-86116425	19971105
	AU 9749652	A1	19980603	AU 1997-49652	19971113
	AU 731776	B2	20010405		
	JP 10195068	A2	19980728	JP 1997-312185	19971113
	EP 944617	A1	19990929	EP 1997-912445	19971113
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	CN 1237167	A	19991201	CN 1997-199638	19971113
	US 6002011	A	19991214	US 1998-9959	19980121
	KR 2000053158	A	20000825	KR 1999-704094	19990507
PRAI	JP 1996-303361	A	19961114		
	WO 1997-JP4136	W	19971113		
OS	MARPAT 129:16123				
GI					



I

AB Substantially solvent-free and stable crystals of benzimidazoles I (R1 = H or an N-protecting group; R2, R3, R4 = H, alkyl, haloalkyl, alkoxy, haloalkoxy; benzene ring may be substituted) or their salts are prepd. in an industrially advantageous method by a desolvation method.

=> s ep0174726/pn

L10 1 EP0174726/PN  
(EP174726/PN)

=> d l10 bib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS

AN 1986:533883 CAPLUS

DN 105:133883

TI (Pyridylmethylthio)benzimidazoles and their sulfoxides

IN Nohara, Akira; Maki, Yoshitaka

PA Takeda Chemical Industries, Ltd. , Japan

SO Eur. Pat. Appl., 23 pp.

CODEN: EPXXDW

DT Patent

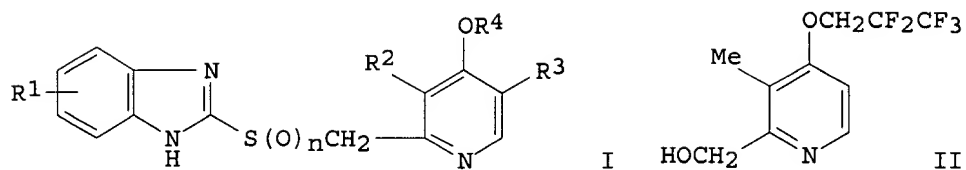
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 174726	A1	19860319	EP 1985-305458	19850731 <--
	EP 174726	B1	19890426		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 61050978	A2	19860313	JP 1984-171069	19840816
	JP 02044473	B4	19901004		
	AT 42554	E	19890515	AT 1985-305458	19850731
	DK 8503564	A	19860217	DK 1985-3564	19850806
	DK 171340	B1	19960916		
	AU 8545895	A1	19860220	AU 1985-45895	19850807
	AU 570130	B2	19880303		
	ZA 8506117	A	19860430	ZA 1985-6117	19850813
	ES 546152	A1	19860516	ES 1985-546152	19850814
	CA 1255314	A1	19890606	CA 1985-488662	19850814
	SU 1507211	A3	19890907	SU 1985-3947161	19850814
	NO 8503226	A	19860217	NO 1985-3226	19850815
	NO 163131	B	19900102		
	NO 163131	C	19941024		
	HU 39444	A2	19860929	HU 1985-3151	19850815
	HU 195210	B	19880428		
PRAI	JP 1984-171069		19840816		
	EP 1985-305458		19850731		

GI





AB The title comps. [I; R<sup>1</sup> = H, MeO, F<sub>3</sub>C; R<sup>2</sup>, R<sup>3</sup> = H, Me; R<sup>4</sup> = fluoroalkyl; n = 0, 1] were prepd. as antiulcer agents. Thus, 2,3-dimethyl-4-nitropyridine 1-oxide was alkoxyated with HOCH<sub>2</sub>CF<sub>2</sub>CF<sub>3</sub>, then heated with Ac<sub>2</sub>O and sapond., to give (pentafluoropropoxy)pyridinemethanol II. This was chlorinated and condensed with 2-mercaptobenzimidazole to give I (R<sup>1</sup> = R<sup>3</sup> = H, R<sup>2</sup> = Me, R<sup>4</sup> = CH<sub>2</sub>CF<sub>2</sub>CF<sub>3</sub>) (III). In rats III inhibited indomethacin-induced ulcers with an IC<sub>50</sub> of 3.7 mg/kg orally.

=> s wo9617077/pn  
L11 1 WO9617077/PN

=> d l11 bib abs

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS  
AN 1996:446998 CAPLUS  
DN 125:112927  
TI Enantioselective preparation of pharmaceutically active sulfoxides by  
bioreduction  
IN Graham, Daniel; Holt, Robert; Lindberg, Per; Taylor, Stephen  
PA Astra Aktiebolag, Swed.  
SO PCT Int. Appl., 30 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9617077	A1	19960606	WO 1995-SE1416	19951127 <--
	W:	AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK			
	RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	CA 2204000	AA	19960606	CA 1995-2204000	19951127
	AU 9641270	A1	19960619	AU 1996-41270	19951127
	AU 699656	B2	19981210		
	EP 795025	A1	19970917	EP 1995-939461	19951127
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE			
	JP 10510164	T2	19981006	JP 1995-518670	19951127
	US 5776765	A	19980707	US 1995-569083	19951218
PRAI	GB 1994-23968		19941128		
	WO 1995-SE1416		19951127		
OS	MARPAT 125:112927				
AB	Enantiomerically pure or enriched sulfoxides are prepd. by stereoselective biol. redn. of the racemic sulfoxides. Thus, racemic omeprazole was reacted with Proteus vulgaris, reducing (-)-omeprazole to leave (+)-omeprazole in >99% enantiomeric excess.				

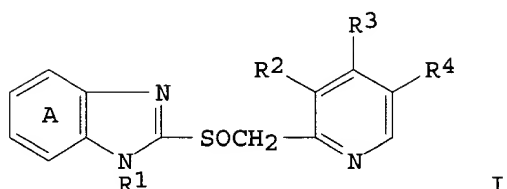
=> s ep0302720/pn  
L12 1 EP0302720/PN  
(EP302720/PN)

=> d l12 bib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS  
AN 1989:439369 CAPLUS  
DN 111:39369  
TI Production of 2-(2-pyridylmethylsulfinyl)benzimidazole as ulcer inhibitors  
via S-oxidation using hydrogen peroxide and vanadium catalysts  
IN Kato, Masayasu; Toyoshima, Yoshio; Iwano, Norio  
PA Takeda Chemical Industries, Ltd., Japan  
SO Eur. Pat. Appl., 11 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
--	------------	------	------	-----------------	------

PI	EP 302720	A1	19890208	EP 1988-307191	19880803 <--
	EP 302720	B1	19921111		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	DK 8804281	A	19890205	DK 1988-4281	19880801
	DK 171989	B1	19970908		
	JP 01131176	A2	19890524	JP 1988-193657	19880802
	JP 06086444	B4	19941102		
	HU 49346	A2	19890928	HU 1988-4076	19880803
	HU 199828	B	19900328		
	CA 1263119	A1	19891121	CA 1988-573673	19880803
	AT 82283	E	19921115	AT 1988-307191	19880803
	ES 2052728	T3	19940716	ES 1988-307191	19880803
	US 5578732	A	19961126	US 1995-430178	19950427
PRAI	JP 1987-194809		19870804		
	EP 1988-307191		19880803		
	US 1988-222424		19910913		
	US 1991-759651		19910913		
	US 1993-68320		19930528		
GI					



AB The title compds. [I; R1 = H, protecting group; R2-R4 = H, (fluoro)alkyl, alkoxy; the A ring may be substituted], known antiulcer agents, were prepd. by oxidn. of the corresponding sulfides with H2O2 in the presence of vanadium compds. 2-[[3-Methyl-4-(2,2,2-trifluoroethoxy)pyrid-2-yl]methylthio]benzimidazole in CH2Cl2 was treated with a mixt. of H2O2 and V2O5 in Me3COH. The mixt. was stirred 1 h at room temp. to give 93.2% of the corresponding sulfinyl compd.

=>

AN 1996:229899 CAPLUS  
DN 124:331460  
TI Determination of R(+)- and S(-)-lansoprazole using chiral stationary-phase  
liquid chromatography and their enantioselective pharmacokinetics in  
humans  
AU Katsuki, Hisakazu; Yagi, Hatsumi; Arimori, Kazuhiko; Nakamura, Chizuko;  
Nakano, Masahiro; Katafuchi, Shigeru; Fujioka, Yuhichi; Fujiyama,  
Shigetoshi  
CS Dep. Pharmacy, Kumamoto Univ. Hospital, Kumamoto, Japan  
SO Pharm. Res. (1996), 13(4), 611-15  
CODEN: PHREEB; ISSN: 0724-8741  
DT Journal  
LA English

AN 1999:758298 CAPLUS

DN 132:308287

TI Investigation of glassy state of two novel benzimidazole derivatives  
AU Vrecer, F.

CS R&D Div., KRKA, Novo mesto, Slovenia

SO Farm. Vestn. (Ljubljana) (1999), 50(Pos. Stev.), 347-348  
CODEN: FMVTAV; ISSN: 0014-8229

PB Slovensko Farmacevtsko Drustvo

DT Journal

LA English

AB **Amorphous** forms of 3,5-dimethyl-4-methoxy-2-[[[5-methoxy-1H-benzimidazol-2-yl)sulfinyl)methyl]pyridine (PP/K-06) and 2-[[[2(1H)-benzimidazolyl)sulfinyl)methyl]-3-methyl-4-(2,2,2-trifluoroethoxy)pyridine (PP/K-10) were prepd. by spray drying. Low dissoln. rates of both substances in comparison to the cryst. forms were attributed to partial crystn. and agglomeration, which occurred within minutes after contact with the dissoln. medium. The **amorphous** form of PP/K-10 was stable under moderate compression. DSC scans of compressed PP/K-10 revealed decreased relaxation enthalpy and asym. crystn. exotherm followed by .gtoreq.1 endotherm in the range 120.0-140.0.degree.; the new endotherms were attributed to new

polymorphic

forms of PP/K-10.

IT 73590-58-6

RL: PRP (Properties)

(investigation of glassy state of novel benzimidazole derivs.)

164482

RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,  
GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,  
ML, MR, NE, SN, TD, TG

SE 9601598	A	19971027	SE 1996-1598	19960426
SE 508669	C2	19981026		
CA 2251636	AA	19971106	CA 1997-2251636	19970422
AU 9727193	A1	19971119	AU 1997-27193	19970422
AU 711345	B2	19991014		
EP 897386	A1	19990224	EP 1997-921045	19970422
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1216989	A	19990519	CN 1997-194114	19970422
BR 9708829	A	19990803	BR 1997-8829	19970422
JP 2000509067	T2	20000718	JP 1997-538796	19970422
US 6124464	A	20000926	US 1997-860825	19970710 <--
NO 9804903	A	19981021	NO 1998-4903	19981021
PRAI SE 1996-1598	A	19960426		
WO 1997-SE674	W	19970422		

OS CASREACT 128:22909; MARPAT 128:22909

AB A novel process for the prepn. of a magnesium salt of a substituted sulfinyl heterocyclic compd. contg. an imidazole moiety is described.. The process is carried out by mixing the substituted heterocycle with a weak base and a magnesium source. The base and the magnesium source are selected to result in residues which are easy to remove during the reaction. The invention also relates to the use of the compds. obtained in medicine. Thus, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-1H-benzimidazole magnesium salt was obtained by the reaction of the corresponding free base with aq. NH3 and MgSO4.7H2O in MeOH soln.

=> s us6150380/pn  
L8 1 US6150380/PN

=> d bib abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS  
AN 1999:152362 CAPLUS  
DN 130:173034  
TI New crystalline form of omeprazole having improved stability  
IN Lovqvist, Karin; Noreland, David; Sundén, Gunnar; Ymen, Ingvar  
PA Astra AB, Swed.  
SO PCT Int. Appl., 18 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9908500	A2	19990225	WO 1998-SE2028	19981110
	WO 9908500	A3	19990729		

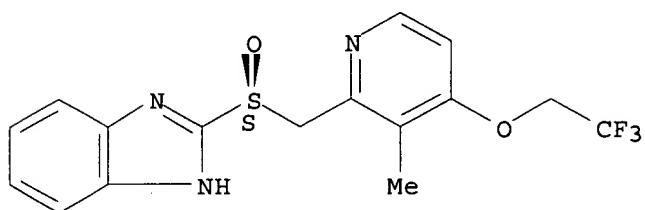
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK,  
EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,  
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MN, MW, MX, NO,

164482

NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA,  
UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,  
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
AU 9913551 A1 19990308 AU 1999-13551 19981110  
EP 969819 A2 20000112 EP 1998-957255 19981110  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
US 6150380 A 20001121 US 1998-202251 19981210 <--  
PRAI WO 1998-SE2028 W 19981110  
AB The present invention relates to a novel cryst. form of  
5-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-1H-  
benzimidazole (omeprazole). Further, the present invention also relates  
to the use of the novel cryst. form of omeprazole for the treatment of  
gastrointestinal disorders, and pharmaceutical compns. contg. it as well  
as processes for the prepn. of the novel cryst. form of omeprazole. The  
cryst. omeprazole, exhibiting specified x-ray powder diffraction pattern,  
is more thermodynamically stable at room temp. than the other cryst. form  
of omeprazole.

L5 31 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
IN 1H-Benzimidazole, 2-[(S)-[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]- (9CI)  
MF C16 H14 F3 N3 O2 S  
CI COM

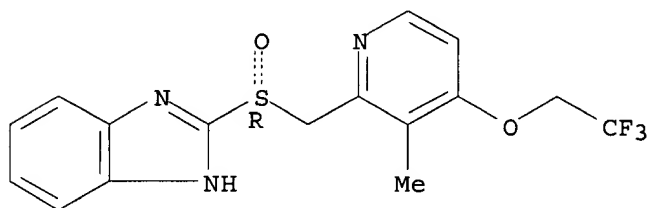
Absolute stereochemistry. Rotation (-).





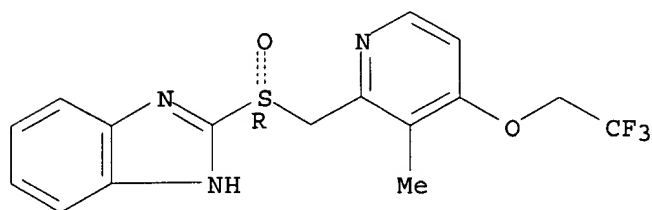
L5 31 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
IN 1H-Benzimidazole, 2-[(R)-[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]- (9CI)  
MF C16 H14 F3 N3 O2 S  
CI COM

Absolute stereochemistry. Rotation (+).



L8 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
IN 1H-Benzimidazole, 2-[(R)-[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]- (9CI)  
MF C16 H14 F3 N3 O2 S  
CI COM

Absolute stereochemistry. Rotation (+).

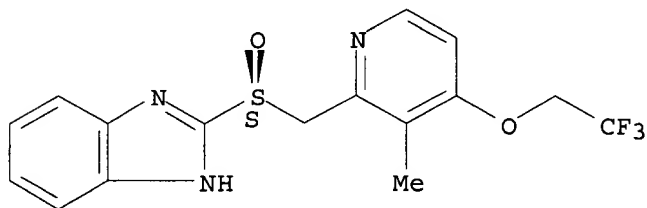


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

oil  
not solid

L8 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
IN 1H-Benzimidazole, 2-[(S)-[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]- (9CI)  
MF C16 H14 F3 N3 O2 S  
CI COM

Absolute stereochemistry. Rotation (-).



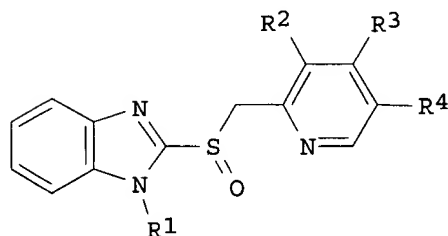
file.

=> s us6002011/pn  
L3 1 US6002011/PN

=> d bib abs

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AN 1998:341559 CAPLUS  
DN 129:16123  
TI Crystals of benzimidazole derivatives and their production  
IN Kato, Masayasu; Ishida, Toru  
PA Takeda Chemical Industries, Ltd., Japan; Kato, Masayasu; Ishida, Toru  
SO PCT Int. Appl., 36 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9821201	A1	19980522	WO 1997-JP4136	19971113
	W:	AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	TW 385306	B	20000321	TW 1997-86116425	19971105
	AU 9749652	A1	19980603	AU 1997-49652	19971113
	AU 731776	B2	20010405		
	JP 10195068	A2	19980728	JP 1997-312185	19971113
	EP 944617	A1	19990929	EP 1997-912445	19971113
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	CN 1237167	A	19991201	CN 1997-199638	19971113
	US 6002011	A	19991214	US 1998-9959	19980121 <--
	KR 2000053158	A	20000825	KR 1999-704094	19990507
PRAI	JP 1996-303361	A	19961114		
	WO 1997-JP4136	W	19971113		
OS	MARPAT 129:16123				
GI					



I

AB Substantially solvent-free and stable crystals of benzimidazoles I (R1 = H or an N-protecting group; R2, R3, R4 = H, alkyl, haloalkyl, alkoxy, haloalkoxy; benzene ring may be substituted) or their salts are prepd. in an industrially advantageous method by a desolvation method.

=> select l3  
ENTER ANSWER NUMBER OR RANGE (1-):1  
ENTER DISPLAY CODE (TI) OR ?:rn

E1 THROUGH E10 ASSIGNED

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

4.79

9.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

ENTRY

TOTAL

SESSION

CA SUBSCRIBER PRICE

-0.62

-1.24

FILE 'REGISTRY' ENTERED AT 10:27:54 ON 21 MAY 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2002 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 19 MAY 2002 HIGHEST RN 418753-34-1

DICTIONARY FILE UPDATES: 19 MAY 2002 HIGHEST RN 418753-34-1

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNnote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s e1-10

1 103577-40-8/BI

(103577-40-8/RN)

1 103577-45-3/BI

(103577-45-3/RN)

1 103577-61-3/BI

(103577-61-3/RN)

1 103577-66-8/BI

(103577-66-8/RN)

1 207790-96-3/BI

(207790-96-3/RN)

1 22710-07-2/BI

(22710-07-2/RN)

1 37699-43-7/BI

(37699-43-7/RN)

1 583-39-1/BI

(583-39-1/RN)

1 583-61-9/BI

(583-61-9/RN)

1 75-89-8/BI

(75-89-8/RN)

L4 10 (103577-40-8/BI OR 103577-45-3/BI OR 103577-61-3/BI OR 103577-66-8/BI OR 207790-96-3/BI OR 22710-07-2/BI OR 37699-43-7/BI OR 583-39-1/BI OR 583-61-9/BI OR 75-89-8/BI)

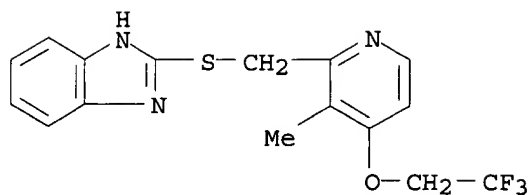
=> d scan

L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS

IN 1H-Benzimidazole, 2-[[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]thio]- (9CI)

MF C16 H14 F3 N3 O S

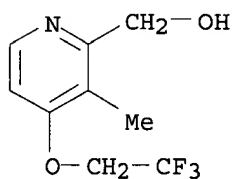
CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

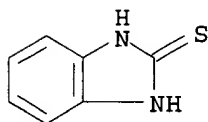
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN 2-Pyridinemethanol, 3-methyl-4-(2,2,2-trifluoroethoxy)- (9CI)  
 MF C9 H10 F3 N O2  
 CI COM



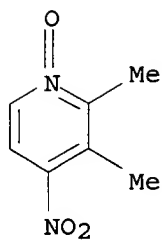
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN 2H-Benzimidazole-2-thione, 1,3-dihydro- (9CI)  
 MF C7 H6 N2 S  
 CI COM



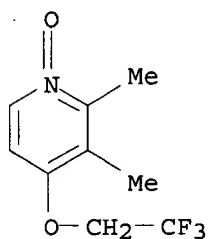
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN Pyridine, 2,3-dimethyl-4-nitro-, 1-oxide (9CI)  
 MF C7 H8 N2 O3



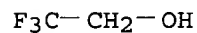
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN Pyridine, 2,3-dimethyl-4-(2,2,2-trifluoroethoxy)-, 1-oxide (9CI)  
 MF C9 H10 F3 N O2



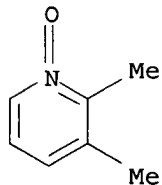
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN Ethanol, 2,2,2-trifluoro- (6CI, 8CI, 9CI)  
 MF C2 H3 F3 O  
 CI COM



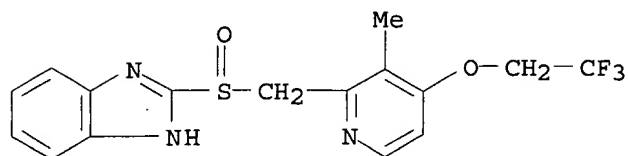
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN Pyridine, 2,3-dimethyl-, 1-oxide (9CI)  
 MF C7 H9 N O



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

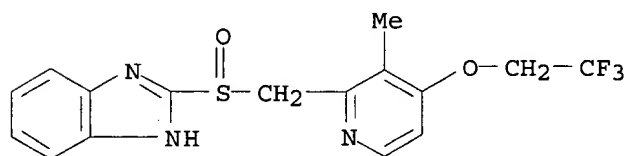
L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN 1H-Benzimidazole, 2-[[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]- (9CI)  
 MF C16 H14 F3 N3 O2 S  
 CI COM



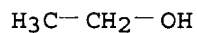
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN Ethanol, compd. with 2-[[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]-1H-benzimidazole (1:1), monohydrate (9CI)  
 MF C16 H14 F3 N3 O2 S . C2 H6 O . H2 O

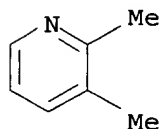
CM 1



CM 2



L4 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN Pyridine, 2,3-dimethyl- (9CI)  
 MF C7 H9 N  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

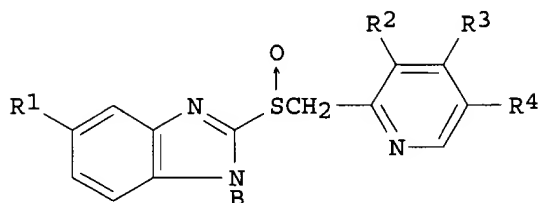
ALL ANSWERS HAVE BEEN SCANNED



LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001039975	A2	20010213	JP 1999-210654	19990726
OS	MARPAT 134:168317				
GI					



AB **Crystals** of sulfoxides I [R1 = H, OMe, OCHF2; R2 = Me, OMe; R3 = O(CH2)3OMe, OMe, OCH2CF3; R4 = H, Me; B = H, alkali metal, 1/2 alk. earth metal] or their salts, useful as gastric acid secretion inhibitors or antiulcer agents (no data), are prepd. by crystn. of amorphous I or I acetone complexes from lower fatty acid esters. I [R1 = R4 = H, R2 = Me, R3 = O(CH2)3OMe, B = Na] (II) acetone complex was dissolved into AcOEt and crystd. to give 93.2% II, which was stored at 25.degree. and 50.04% relative humidity for 2 wk to show 0.23% wt. increase, vs. .gtoreq.7% wt. increase, for amorphous II.

L15 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 2001:31493 CAPLUS

DN 134:86261

TI **Crystals** of benzimidazole compounds

IN Fujishima, Akira; Aoki, Isao; Kamiyama, Keiji

PA Takeda Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002389	A1	20010111	WO 2000-JP4279	20000629
	W:				
	AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	JP 2001072675	A2	20010321	JP 2000-195627	20000629
PRAI	JP 1999-186403	A	19990630		

AB Cryst. S-isomer of 2-[[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]-1H-benzimidazole (I) or salts thereof, useful as antiulcer agents at 5-150 mg/day p.o., are prepd. and their **crystal** structures detd. by powder x-ray diffraction. Chromatog. resoln. of racemic I on a Chiralcel OD column with 85:15 hexane/isopropanol mobile phase gave amorphous (S)-I of 93.3% ee, which was dissolved in acetone, the soln. was gently heated while adding H2O, the soln. was kept at room temp. overnight and subject to repeated supersonic treatment and recrystn. to give cryst. (S)-I of 99.4% ee.

RE.CNT 49

RE

(4) Astra Aktiebolag; CN 1157614 A CAPLUS  
 (5) Astra Aktiebolag; CN 1157614 A CAPLUS  
 (6) Astra Aktiebolag; CN 1193971 A CAPLUS  
 (7) Astra Aktiebolag; CA 2193994 A CAPLUS  
 (8) Astra Aktiebolag; CA 2193994 A CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2001 ACS  
 AN 2001:24360 CAPLUS  
 DN 134:123786  
 TI Lansoprazole, an antiulcerative drug  
 AU Vyas, K.; Sivalakshmi, A.; Om Reddy, G.  
 CS Dr. Reddy's Research Foundation, Hyderabad, 500 016, India  
 SO Acta Crystallogr., Sect. C: Cryst. Struct. Commun. (2000), C56(12),  
 e572-e573  
 CODEN: ACSCEE; ISSN: 0108-2701  
 PB Munksgaard International Publishers Ltd.  
 DT Journal  
 LA English  
 AB Lansoprazole, 2-([3-methyl-4-(2,2,2-trifluoroethoxy)pyridin-2-yl]methyl)sulfinyl)-1H-benzimidazole, C16H14F3N3O2S, is an antiulcerative agent. The mols. in the lattice are held together by intermol. H bonds between the NH group of benzimidazole and the sulfinyl O atom. Crystallog. data are given.

RE.CNT 7

RE

(1) Altomare, A; J Appl Cryst 1993, V26, P343  
 (2) Molecular Structure Corporation; MSC/AFC Diffractometer Control Software 1993  
 (3) Molecular Structure Corporation; TEXSAN. Version 1.7 1995  
 (5) Ohishi, H; Acta Cryst 1989, VC45, P1921 CAPLUS  
 (7) Zachariasen, W; Acta Cryst 1967, V23, P558 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2001 ACS  
 AN 2000:911240 CAPLUS  
 DN 134:61518  
 TI Purification and crystallization of (R)-lansoprazole as antiulcer agent  
 IN Fujishima, Akira; Aoki, Isao; Kamiyama, Keiji  
 PA Takeda Chemical Industries, Ltd., Japan  
 SO PCT Int. Appl., 24 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000078745	A2	20001228	WO 2000-JP3880	20000615
	WO 2000078745	A3	20010705		
	W:				
	AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1129088	A2	20010905	EP 2000-937235	20000615
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001058990	A2	20010306	JP 2000-181640	20000616
	JP 2001122783	A2	20010508	JP 2000-331386	20000616
PRAI	JP 1999-171509	A	19990617		
	WO 2000-JP3880	W	20000615		